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Boltzmann and Vlasov kinetic equations in anisotropic cosmological models

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Abstract

The structure of the Boltzmann and Vlasov Kinetic equations is considered for spatially uniform cosmological models taking into account the Einstein equations. A successive approximation technique is proposed for solving Boltzmann's equation at the intensely anisotropic vacuum stage of expansion for the type I Bianci cosmological model. It is shown that during the hadron stage the collisional gas can be found in a highly nonequilibrium state. © 1986 Plenum Publishing Corporation.

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